

SEQUENCE LISTING

<110> BEASLEY, Ellen et al

<120> ISOLATED HUMAN PHOSPHATASE PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN PHOSPHATASE PROTEINS,
AND USES THEREOF

<130> CL001219DIV

<140> To Be Assigned

<141> 09-30-2003

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<151> 04-02-2001

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Asn Met Gln Cys Met Ala Thr Ser Trp Gln Ser Val Leu Val Lys Trp	1345	1350	1355
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Val Glu Arg Asn Ser Thr Lys Val Ser Pro Gln Asp His Met Tyr Thr	1380	1385	1390
Phe Ile Lys Leu Leu Ala Asn Thr Ser Tyr Val Phe Lys Val Arg Ala	1395	1400	1405
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Val Gln Ser Thr Ser Ala Thr Leu Thr Trp Ile Arg Pro Asp Thr Ile	1445	1450	1455
Leu Gly Tyr Phe Gln Asn Tyr Lys Ile Thr Thr Gln Leu Arg Ala Gln	1460	1465	1470
Lys Cys Lys Glu Trp Glu Ser Glu Glu Cys Val Glu Tyr Gln Lys Ile	1475	1480	1485
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          35          40          45
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          50          55          60
Gly Glu Arg Val Gly Ser Ala Gly Ile Leu Leu Ser Trp Asn Thr Pro
65          70          75          80
Pro Asn Pro Asn Gly Arg Ile Ile Ser Tyr Val Val Lys Tyr Lys Glu
          85          90          95
Val Cys Pro Trp Met Gln Thr Ala Tyr Thr Arg Ala Arg Ala Lys Pro
          100          105          110
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Thr Glu Ala Gly Tyr Ile Asp Ser Thr Ile Val Arg Thr Pro Glu Ser
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Val Pro Glu Gly Pro Pro Gln Asn Cys Ile Met Gly Asn Val Thr Gly
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Val Arg Thr Ser Glu	Thr Val Pro Asp Ser	Ala Pro Glu Asn Ile Thr		
	755	760		765
Tyr Lys Asn Ile Ser	Ser Gly Glu Ile Glu Ile	Ser Phe Leu Pro Pro		
	770	775		780
Arg Ser Pro Asn Gly	Ile Ile Gln Lys Tyr Thr	Ile Tyr Leu Lys Arg		
785	790	795		800
Ser Asn Ser His Glu	Ala Arg Thr Ile Asn Thr	Thr Thr Ser Leu Thr Gln		
	805	810		815
Thr Ile Gly Gly Leu	Lys Lys Tyr Thr His Tyr	Val Ile Glu Val Ser		
	820	825		830
Ala Ser Thr Leu Lys	Gly Glu Gly Ile Arg Ser	Arg Pro Ile Ser Ile		
	835	840		845
Leu Thr Glu Glu Asp	Ala Pro Asp Ser Pro	Pro Gln Asn Phe Ser Val		
	850	855		860
Lys Gln Leu Ser Gly	Val Thr Val Met Leu Ser	Trp Gln Pro Pro Leu		
865	870	875		880
Glu Pro Asn Gly Ile	Ile Leu Tyr Tyr Thr	Val Tyr Val Trp Asp Lys		
	885	890		895
Ser Ser Leu Arg Ala	Ile Asn Ala Thr Glu	Ala Ser Leu Val Leu Ser		
	900	905		910
Asp Leu Asp Tyr Asn	Val Asp Tyr Gly Ala	Cys Val Thr Ala Ser Thr		
	915	920		925
Arg Phe Gly Asp Gly	Asn Ala Arg Ser Ser	Ile Ile Asn Phe Arg Thr		
	930	935		940
Pro Glu Gly Glu Pro	Ser Asp Pro Pro Asn	Asp Val His Tyr Val Asn		
945	950	955		960
Leu Ser Ser Ser Ser	Ile Ile Leu Phe Trp	Thr Pro Pro Val Lys Pro		
	965	970		975
Asn Gly Ile Ile Gln	Tyr Tyr Ser Val Tyr	Tyr Gln Asn Thr Ser Gly		
	980	985		990
Thr Phe Val Gln Asn	Phe Thr Leu Gln Val	Thr Lys Glu Ser Asp		
	995	1000		1005
Asn Val Thr Val Ser	Ala Arg Ile Tyr Arg	Leu Ala Ile Phe Ser Tyr		
	1010	1015		1020
Tyr Thr Phe Trp Leu	Thr Ala Ser Thr Ser	Val Gly Asn Gly Asn Lys		
1025	1030	1035		1040
Ser Ser Asp Ile Ile	His Val Tyr Thr Asp	Gln Asp Ile Pro Glu Gly		
	1045	1050		1055
Pro Val Gly Asn Leu	Thr Phe Glu Ser Ile	Ser Ser Thr Ala Ile His		
	1060	1065		1070
Val Ser Trp Glu Pro	Pro Ser Gln Pro Asn	Gly Leu Val Phe Tyr Tyr		
	1075	1080		1085
Leu Ser Leu Asn Leu	Gln Gln Ser Pro Pro	Arg His Met Ile Pro Pro		
	1090	1095		1100
Leu Val Thr Tyr Glu	Asn Ser Ile Asp Phe	Asp Asp Leu Glu Lys Tyr		
1105	1110	1115		1120
Thr Asp Tyr Ile Phe	Lys Ile Thr Pro Ser	Thr Glu Lys Gly Phe Ser		
	1125	1130		1135
Glu Thr Tyr Thr Gln	Leu His Ile Lys Thr	Glu Glu Asp Val Pro		
	1140	1145		1150

Asp Thr Pro Pro Ile Ile Asn Thr Phe Lys Asn Leu Ser Ser Thr Ser
 1155 1160 1165
 Ile Leu Leu Ser Trp Asp Pro Pro Leu Lys Pro Asn Gly Ala Ile Leu
 1170 1175 1180
 Gly Tyr His Leu Thr Leu Gln Gly Pro His Ala Asn His Thr Phe Val
 1185 1190 1195 1200
 Thr Ser Gly Asn His Ile Val Leu Glu Glu Leu Ser Pro Phe Thr Leu
 1205 1210 1215
 Tyr Ser Phe Phe Ala Ala Ala Arg Thr Met Lys Gly Leu Gly Pro Ser
 1220 1225 1230
 Ser Ile Leu Phe Phe Tyr Thr Asp Glu Ser Ala Pro Leu Ala Pro Pro
 1235 1240 1245
 Gln Asn Leu Thr Leu Ile Asn Tyr Thr Ser Asp Phe Val Trp Leu Thr
 1250 1255 1260
 Trp Ser Pro Ser Pro Leu Pro Gly Gly Ile Val Lys Val Tyr Ser Phe
 1265 1270 1275 1280
 Lys Ile His Glu His Glu Thr Asp Thr Val Phe Tyr Lys Asn Ile Ser
 1285 1290 1295
 Gly Leu Gln Thr Asp Ala Lys Leu Glu Gly Leu Glu Pro Val Ser Thr
 1300 1305 1310
 Tyr Ser Val Ser Val Ser Ala Phe Thr Lys Val Gly Asn Gly Asn Gln
 1315 1320 1325
 Tyr Ser Asn Val Val Glu Phe Thr Thr Gln Glu Ser Val Pro Glu Ala
 1330 1335 1340
 Val Arg Asn Ile Glu Cys Val Ala Arg Asp Trp Gln Ser Val Ser Val
 1345 1350 1355 1360
 Arg Trp Asp Pro Pro Arg Lys Thr Asn Gly Ile Ile Ile His Tyr Met
 1365 1370 1375
 Ile Thr Val Gly Gly Asn Ser Thr Lys Val Ser Pro Arg Asp Pro Thr
 1380 1385 1390
 Tyr Thr Phe Thr Lys Leu Leu Pro Asn Thr Ser Tyr Val Phe Glu Val
 1395 1400 1405
 Arg Ala Ser Thr Ser Ala Gly Glu Gly Asn Glu Ser Arg Cys Asp Ile
 1410 1415 1420
 Ser Thr Leu Pro Glu Thr Val Pro Ser Ala Pro Thr Asn Val Ala Phe
 1425 1430 1435 1440
 Ser Asn Val Gln Ser Thr Ser Ala Thr Leu Thr Trp Thr Lys Pro Asp
 1445 1450 1455
 Thr Ile Phe Gly Tyr Phe Gln Asn Tyr Lys Ile Thr Thr Gln Leu Arg
 1460 1465 1470
 Ala Gln Lys Cys Arg Glu Trp Glu Pro Glu Glu Cys Ile Glu His Gln
 1475 1480 1485
 Lys Asp Gln Tyr Leu Tyr Glu Ala Asn Gln Thr Glu Glu Thr Val His
 1490 1495 1500
 Gly Leu Lys Lys Phe Arg Trp Tyr Arg Phe Gln Val Ala Ala Ser Thr
 1505 1510 1515 1520
 Asn Val Gly Tyr Ser Asn Ala Ser Glu Trp Ile Ser Thr Gln Thr Leu
 1525 1530 1535
 Pro Gly Pro Pro Asp Gly Pro Pro Glu Asn Val His Val Val Ala Thr
 1540 1545 1550
 Ser Pro Phe Gly Ile Asn Ile Ser Trp Ser Glu Pro Ala Val Ile Thr
 1555 1560 1565
 Gly Pro Thr Phe Tyr Leu Ile Asp Val Lys Ser Val Asp Asp Asp Asp
 1570 1575 1580
 Phe Asn Ile Ser Phe Leu Lys Ser Asn Glu Glu Asn Lys Thr Thr Glu
 1585 1590 1595 1600
 Ile Asn Asn Leu Glu Val Phe Thr Arg Tyr Ser Val Val Ile Thr Ala

	1605		1610		1615
Phe Val Gly	Asn Val Ser Arg Ala Tyr Thr Asp Gly Lys Ser Ser Ala				
	1620		1625		1630
Glu Val Ile	Ile Thr Thr Leu Glu Ser Val Pro Lys Asp Pro Pro Asn				
	1635		1640		1645
Asn Met Thr	Phe Gln Lys Ile Pro Asp Glu Val Thr Lys Phe Gln Leu				
	1650		1655		1660
Thr Phe Leu	Pro Pro Ser Gln Pro Asn Gly Asn Ile Arg Val Tyr Gln				
	1665		1670		1675
Ala Leu Val	Tyr Arg Glu Asp Asp Pro Thr Ala Val Gln Ile His Asn				
	1685		1690		1695
Phe Ser Ile	Ile Gln Lys Thr Asp Thr Ser Ile Ile Ala Met Leu Glu				
	1700		1705		1710
Gly Leu Lys	Gly Gly His Thr Tyr Asn Ile Ser Val Tyr Ala Ile Asn				
	1715		1720		1725
Ser Ala Gly	Ala Gly Pro Lys Val Gln Met Arg Ile Thr Met Asp Ile				
	1730		1735		1740
Lys Ala Pro	Ala Arg Pro Lys Ser Lys Pro Ile Pro Ile Arg Asp Ala				
	1745		1750		1755
Thr Gly Lys	Leu Leu Val Thr Ser Thr Thr Ile Thr Ile Arg Met Pro				
	1765		1770		1775
Ile Cys Tyr	Tyr Asn Asp Asp His Gly Pro Ile Arg Asn Val Gln Val				
	1780		1785		1790
Leu Val Ala	Glu Thr Gly Ala Gln Gln Asp Gly Asn Val Thr Lys Trp				
	1795		1800		1805
Tyr Asp Ala	Tyr Phe Asn Lys Ala Arg Pro Tyr Phe Thr Asn Glu Gly				
	1810		1815		1820
Phe Pro Asn	Pro Pro Cys Ile Glu Gly Lys Thr Lys Phe Ser Gly Asn				
	1825		1830		1835
Glu Glu Ile	Tyr Val Ile Gly Ala Asp Asn Ala Cys Met Ile Pro Gly				
	1845		1850		1855
Asn Glu Glu	Lys Ile Cys Asn Gly Pro Leu Lys Pro Lys Lys Gln Tyr				
	1860		1865		1870
Leu Phe Lys	Phe Arg Ala Thr Asn Val Met Gly Gln Phe Thr Asp Ser				
	1875		1880		1885
Glu Tyr Ser	Asp Pro Ile Lys Thr Leu Gly Glu Gly Leu Ser Glu Arg				
	1890		1895		1900
Thr Val Glu	Ile Ile Leu Ser Val Thr Leu Cys Ile Leu Ser Ile Ile				
	1905		1910		1915
Leu Leu Gly	Thr Ala Ile Phe Ala Phe Val Arg Ile Arg Gln Lys Gln				
	1925		1930		1935
Lys Glu Gly	Gly Thr Tyr Ser Pro Arg Asp Ala Glu Ile Ile Asp Thr				
	1940		1945		1950
Lys Phe Lys	Leu Asp Gln Leu Ile Thr Val Ala Asp Leu Glu Leu Lys				
	1955		1960		1965
Asp Glu Arg	Leu Thr Arg Leu Leu Ser Tyr Arg Lys Ser Ile Lys Pro				
	1970		1975		1980
Ile Ser Lys	Lys Ser Phe Leu Gln His Val Glu Glu Leu Cys Thr Asn				
	1985		1990		1995
Ser Asn Leu	Lys Phe Gln Glu Glu Phe Ser Glu Leu Pro Lys Phe Leu				
	2005		2010		2015
Gln Asp Leu	Ser Ser Thr Asp Ala Asp Leu Pro Trp Asn Arg Ala Lys				
	2020		2025		2030
Asn Arg Phe	Pro Asn Ile Lys Pro Tyr Asn Asn Asn Arg Val Lys Leu				
	2035		2040		2045
Ile Ala Asp	Val Ser Leu Pro Gly Ser Asp Tyr Ile Asn Ala Ser Tyr				
	2050		2055		2060

Val Ser Gly Tyr Leu Cys Pro Asn Glu Phe Ile Ala Thr Gln Gly Pro			
2065	2070	2075	2080
Leu Pro Gly Thr Val Gly Asp Phe Trp Arg Met Val Trp Glu Thr Arg			
	2085	2090	2095
Thr Lys Thr Leu Val Met Leu Thr Gln Cys Phe Glu Lys Gly Arg Ile			
	2100	2105	2110
Arg Cys His Gln Tyr Trp Pro Glu Asp Asn Lys Pro Val Thr Val Phe			
	2115	2120	2125
Gly Asp Ile Val Ile Thr Lys Leu Met Glu Asp Ile Gln Ile Asp Trp			
	2130	2135	2140
Thr Ile Arg Asp Leu Lys Ile Glu Arg His Gly Asp Cys Met Thr Val			
	2145	2150	2155
Arg Gln Cys Asn Phe Thr Gly Trp Pro Glu His Gly Val Pro Glu Asn			
	2165	2170	2175
Thr Thr Pro Leu Ile His Phe Val Lys Leu Val Arg Thr Ser Arg Ala			
	2180	2185	2190
His Asp Thr Thr Pro Met Val Val His Cys Ser Ala Gly Val Gly Arg			
	2195	2200	2205
Thr Gly Val Phe Ile Ala Leu Asp His Leu Thr Gln His Ile Asn Asn			
	2210	2215	2220
His Asp Phe Val Asp Ile Tyr Gly Leu Val Ala Glu Leu Arg Ser Glu			
	2225	2230	2235
Arg Met Cys Met Val Gln Asn Leu Ala Gln Tyr Ile Phe Leu His Gln			
	2245	2250	2255
Cys Ile Leu Asp Leu Leu Ser Asn Lys Gly Gly His Gln Pro Val Cys			
	2260	2265	2270
Phe Val Asn Tyr Ser Thr Leu Gln Lys Met Asp Ser Leu Asp Ala Met			
	2275	2280	2285
Glu Gly Asp Val Glu Leu Glu Trp Glu Glu Thr Thr Met			
	2290	2295	2300